Decoding secret codes

Mr. A want to send a code to Mr. B. The code would be integers 32 digits which can be decoded by

(See the example) The 1st digit is the far-left digit

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12345678901234567890123456789012   <-- digits
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92813912398100282033745980018127   <-- data

a) Pick the 4th, 11th, 18th, 25th, 32nd digits to write it in ordered (start from 4th and skip each 7 digits)	**92813912398100282033745980018127 --> 18087**
b) Pick the 8th, 13th, 18th, 23rd, 28th digits to write it in ordered (start from 8th and skip each 5 digits)	**92813912398100282033745980018127 --> 20051**
c) Combine the numbers from a) and b) then add it with 10000.	**18087 + 20051 + 10000 = 48138**
d) Pick the thousands, hundreds and tens digit from the result of c) and concatenate them.	**48138 --> 813**
e) Combine the digits from d) then pick the units digit and add it with 1	**813 --> 8 + 1 + 3 = 12 --> 2 + 1 = 3**
f) Convert the number from e) to the capital letter of alphabets with the rule 1 equals A, 2 equals B, 3 equals C, ..., 9 equals I and 10 equals J.	**3 --> C**
g) The secret code is the number from d) concatenated by the letter from f)	**813C**

Input

32 digits integer.

Output

Code which is decoded by the rule above.

Example

Input (from keyboard)	Output (on screen)
92813912398100282033745980018127	813C
00000000000000000000000000000000	000A
99999999999999999999999999999999	999H